

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/535,312  
Source: IFwp  
Date Processed by STIC: 8/8/06

***ENTERED***



IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,312

DATE: 08/08/2006

TIME: 09:13:47

Input Set : F:\404uspc.app.txt  
 Output Set: N:\CRF4\08082006\J535312.raw

1 <110> APPLICANT: Jung, Sung Youb  
 2 Kim, Jin Sun  
 3 Park, Young Jin  
 4 Choi, Ki-Doo  
 5 Kwon, Se Chang  
 6 Lee, Gwan Sun  
 8 <120> TITLE OF INVENTION: METHOD FOR THE MASS PRODUCTION OF IMMUNOGLOBULIN CONSTANT REGION  
 10 <130> FILE REFERENCE: 430156.404USPC  
 12 <140> CURRENT APPLICATION NUMBER: US 10/535,312  
 C--> 13 <141> CURRENT FILING DATE: 2005-05-17  
 15 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/002943  
 16 <151> PRIOR FILING DATE: 2004-11-13  
 18 <150> PRIOR APPLICATION NUMBER: KR10-2003-0080299  
 19 <151> PRIOR FILING DATE: 2003-11-13  
 21 <160> NUMBER OF SEQ ID NOS: 49  
 23 <170> SOFTWARE: KopatentIn 1.71  
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 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Artificial Sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: primer  
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 38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 33  
 40 <212> TYPE: DNA  
 41 <213> ORGANISM: Artificial Sequence  
 43 <220> FEATURE:  
 44 <223> OTHER INFORMATION: primer  
 47 <400> SEQUENCE: 2  
 48 gggggatcct catttacccg gagacaggga gag 33  
 51 <210> SEQ ID NO: 3  
 52 <211> LENGTH: 35  
 53 <212> TYPE: DNA  
 54 <213> ORGANISM: Artificial Sequence  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: primer  
 60 <400> SEQUENCE: 3  
 61 cccaaagcttg acatccagtt gacccagtct ccatc 35  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 36  
 66 <212> TYPE: DNA

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67 <213> ORGANISM: Artificial Sequence  
 69 <220> FEATURE:  
 70 <223> OTHER INFORMATION: primer  
 73 <400> SEQUENCE: 4  
 74 gggggatcct caacactctc ccctgttcaa gctctt 36  
 77 <210> SEQ ID NO: 5  
 78 <211> LENGTH: 990  
 79 <212> TYPE: DNA  
 80 <213> ORGANISM: Homo sapiens  
 82 <400> SEQUENCE: 5  
 83 gcctccacca agggccatc ggtctcccc ctggcaccct cctccaagag cacctctggg 60  
 85 ggcacagcgg ccctggctg cctggtaag gactactcc cccgaaagggt gacgggttcg 120  
 87 tggaaactcag ggcgcctgac cagcggcgtg cacacccctc cggctgtcct acagtcctca 180  
 89 ggactctact ccctcagcag cgtggtgacc gtgcctcca gcagcttggg caccaggacc 240  
 91 tacatctgca acgtgaatca caagcccagg aacaccaagg tggacaagaa agttgagccc 300  
 93 aaatcttgcg acaaaaactca cacatgcctca ccgtgcccagg cacctgaact cctgggggg 360  
 95 ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 420  
 97 gaggtcacat ggcgtgggtt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480  
 99 tacgtggacg ggcgtggaggt gcataatgcc aagacaaaagg cgccgggaggga gcagtgac 540  
 101 agcacgttacc gtgtggtcg cgtcctcacc gtccctgcacc aggactggct gaatggcaag 600  
 103 gagtacaagt gcaagggttc caacaaaggcc ctcccagccc ccatcgagaa aaccatctcc 660  
 105 aaagccaaag ggcagccccg agagccacag gtgtacaccc tgccccatc ccggatgag 720  
 107 ctgaccaaga accaggttcg cctgacactc ctggtaaag gcttctatcc cagcgacatc 780  
 109 ggcgtggagt gggagagcaa tggcagccg gagaacaact acaagaccac gcctccctg 840  
 111 ctggactccg acggctcctt cttcccttac agcaagctca ccgtggacaa gagcaggtgg 900  
 113 cagcagggga acgtttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960  
 115 cagaagagcc tctccctgtc tccggtaaa 990  
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 120 <212> TYPE: DNA  
 121 <213> ORGANISM: Homo sapiens  
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 126 ggaactgcct ctgttgtgtg cctgctgaat aacttctatc ccagagaggc caaagtacag 120  
 128 tggaaagggtgg ataacccct ccaatcggtt aactcccagg agagtgtcac agaggcaggac 180  
 130 agcaaggaca gcacccatcag cctcagcagc accctgacgc tgagcaaaggc agactacacg 240  
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 134 agttcaaca ggggagagtgt ttag 324  
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 139 <212> TYPE: DNA  
 140 <213> ORGANISM: Artificial Sequence  
 142 <220> FEATURE:  
 143 <223> OTHER INFORMATION: primer  
 146 <400> SEQUENCE: 7  
 147 cggcctccac caaggccca tcggtcttcc 30  
 150 <210> SEQ ID NO: 8  
 151 <211> LENGTH: 33  
 152 <212> TYPE: DNA

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153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: primer
159 <400> SEQUENCE: 8
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163 <210> SEQ ID NO: 9
164 <211> LENGTH: 33
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: primer
172 <400> SEQUENCE: 9
173 cgtcatgcc agcacctgaa ctccctgggg gac 33
176 <210> SEQ ID NO: 10
177 <211> LENGTH: 35
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: primer
185 <400> SEQUENCE: 10
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189 <210> SEQ ID NO: 11
190 <211> LENGTH: 26
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: primer
198 <400> SEQUENCE: 11
199 cggcacctga actccctgggg ggacccg 26
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 69
204 <212> TYPE: DNA
205 <213> ORGANISM: Escherichia coli
207 <400> SEQUENCE: 12
208 atgaaaaaga caatcgatt tcttcttgca tctatgttcg tttttctat tgctacaaat 60
210 gcccaggcg 69
213 <210> SEQ ID NO: 13
214 <211> LENGTH: 45
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: primer
222 <400> SEQUENCE: 13
223 tctattgcta caaatgcccc ggccttccca accattccct tatcc 45
226 <210> SEQ ID NO: 14
227 <211> LENGTH: 45
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:

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Input Set : F:\404uspc.app.txt

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232 <223> OTHER INFORMATION: primer  
 235 <400> SEQUENCE: 14  
 236 agataaacat gtttacgggt ccggaaagggt tggtaaggga atagg 45  
 239 <210> SEQ ID NO: 15  
 240 <211> LENGTH: 984  
 241 <212> TYPE: DNA  
 242 <213> ORGANISM: Homo sapiens  
 244 <400> SEQUENCE: 15  
 245 gcttccacca agggcccatc cgtttcccc ctggcgccct gctccaggag caccccgag 60  
 247 agcacagccg ccctgggctg cctggtcaag gactacttc ccgaaccgggt gacgggtgtcg 120  
 249 tggaaactcaag ggcgcctgac cagcggcgtg cacaccccttcc cggctgtcct acagtcctca 180  
 251 ggactctact ccctcagcag cgtggtgacc gtgccttcca gcagcttggg cacgaagacc 240  
 253 tacacccgtca acgttagatca caagccccagc aacaccaagg tggacaagag agttgagtcc 300  
 255 aaatatggtc cccatgccc atcatgccc gcacccctgat ttctgggggg accatcagtc 360  
 257 ttccctgttcc ccccaaaacc caaggacact ctcatgatct cccggacccc tgaggtcactg 420  
 259 tgcgtgggtgg tggacgtgag ccaggaagac cccgagggtcc agttcaactg gtacgtggat 480  
 261 ggcgtggagg tgcataatgc caagacaag ccgcgggagg agcagttcaa cagcacgtac 540  
 263 cgtgtggtca gegtccctcac cgtccctgac caggactggc tgaacggcaa ggagtacaag 600  
 265 tgcacagggtct ccaacaaagg cctccctgtcc tccatcgaga aaaccatctc caaagccaaa 660  
 267 gggcagcccc gagagccaca ggtgtacacc ctgcctccat cccaggagga gatgaccaag 720  
 269 aaccagggtca gcctgacctg cctggtcaaa ggcttctacc ccagcgcacat cgcctggag 780  
 271 tgggagagca atggcagcc ggagaacaac tacaagacca cgcctccgt gctggactcc 840  
 273 gacggctcct tcttcctcta cagcaggcta accgtggaca agagcagggtg gcaggagggg 900  
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 290 cgtcatgccc agcacctgag ttccctgggg gacca 35  
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 295 <212> TYPE: DNA  
 296 <213> ORGANISM: Artificial Sequence  
 298 <220> FEATURE:  
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 302 <400> SEQUENCE: 17  
 303 gggggatcct catttaccca gagacaggga gaggctttc tg 42  
 306 <210> SEQ ID NO: 18  
 307 <211> LENGTH: 29  
 308 <212> TYPE: DNA  
 309 <213> ORGANISM: Artificial Sequence  
 311 <220> FEATURE:  
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 315 <400> SEQUENCE: 18  
 316 cggcacctga gttccctgggg ggaccatca 29

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Input Set : F:\404uspc.app.txt

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319 <210> SEQ ID NO: 19  
 320 <211> LENGTH: 30  
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 329 cggttccac caaggccca tccgtttcc 30  
 332 <210> SEQ ID NO: 20  
 333 <211> LENGTH: 21  
 334 <212> TYPE: DNA  
 335 <213> ORGANISM: Artificial Sequence  
 337 <220> FEATURE:  
 338 <223> OTHER INFORMATION: primer  
 341 <400> SEQUENCE: 20  
 342 cgcgaactgt ggctgcacca t 21  
 345 <210> SEQ ID NO: 21  
 346 <211> LENGTH: 220  
 347 <212> TYPE: PRT  
 348 <213> ORGANISM: Homo sapiens  
 350 <400> SEQUENCE: 21  
 351 Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe  
 352 1 5 10 15  
 354 Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val  
 355 20 25 30  
 357 Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe  
 358 35 40 45  
 360 Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro  
 361 50 55 60  
 363 Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr  
 364 65 70 75 80  
 366 Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val  
 367 85 90 95  
 369 Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala  
 370 100 105 110  
 372 Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg  
 373 115 120 125  
 375 Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
 376 130 135 140  
 378 Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro  
 379 145 150 155 160  
 381 Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser  
 382 165 170 175  
 384 Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln  
 385 180 185 190  
 387 Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His  
 388 195 200 205  
 390 Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
 391 210 215 220

**VERIFICATION SUMMARY** DATE: 08/08/2006  
PATENT APPLICATION: US/10/535,312 TIME: 09:13:48

Input Set : F:\404uspc.app.txt  
Output Set: N:\CRF4\08082006\J535312.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date